

Abstract

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ABSTRACT

A quick-action clamping cylinder is described which has a housing and a cover which covers the housing and has a center opening for receiving a retractable nipple that is arranged on the lower side of a workpiece pallet. The retractable nipple is locked in a spring-loaded manner in the housing by means of a plurality of locking balls that are spring-loaded in the locked position on the outer periphery of the retractable nipple. The locking balls are disengaged from the retractable nipple in the unlocked position by displacing a piston actuated by a pressurized medium. The aim of the invention is to obtain a simple, small clamping system. To this end, the locking balls convert the spring force exerted by the springs into a multiple of the retraction force acting on the retractable nipple, by means of a lever arm transmission.